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APPLICATION NO. FILING DATE		FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/032,154		12/20/2001	Michael P. Cornaby	10559-642001/P12486	3570
20985	7590	08/31/2004		EXAMINER	
FISH & R		*	KIM, KEN	KIM, KENNETH S	
12390 EL O SAN DIEG				ART UNIT	PAPER NUMBER
	,			2111	
			DATE MAIL ED: 08/31/2004		

Please find below and/or attached an Office communication concerning this application or proceeding.

•		Applicati	on No.	Applicant(s)				
Office Action Summary			54	CORNABY ET AL.				
			r	Art Unit				
		Kenneth	SKIM	2111				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply								
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).  Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).								
Status								
1)🖂	Responsive to communication(s) filed on <u>20 December 2001</u> .							
2a) <u></u> ☐	This action is <b>FINAL</b> . 2	b)⊠ This action is r	non-final.					
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims								
4)⊠ 5)□ 6)⊠ 7)□	Claim(s) <u>1-38</u> is/are pending in the apta apta of the above claim(s) is/are Claim(s) is/are allowed. Claim(s) <u>1-38</u> is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction	e withdrawn from co		KENNETH S. KIM PRIMARY EXAMINER				
Application Papers								
9) The specification is objected to by the Examiner.								
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.								
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority under 35 U.S.C. § 119								
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>								
Attachment	(s)							
2) Notice 3) Inform	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PT nation Disclosure Statement(s) (PTO-1449 or Pto No(s)/Mail Date		4) Interview Summary Paper No(s)/Mail Di 5) Notice of Informal F 6) Other:					

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1. Claims 1-38 are presented for examination.

2. The abstract of the disclosure is objected to because the current abstract does not adequately describe the invention. See MPEP § 608.01(b).

All amended abstracts are to be submitted on a separate sheet (37 CFR 1.72).

3. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

- 4. Claims 1-38 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.
- (a) Claim 1, it is not clear what is the configuration and function of the "out-of-order microinstruction pointer stack" and what is meant by "out-of-order".
- (b) Claim 8, the same as (a) and it is not clear whether micro-codes or pointers to micro-codes are stored in the stack.
- (c) Claims 26-31, the "micro-operation" lacks antecedent basis.
- (d) Claim 32, the same as (a) and (b).
- (e) The differences among micro-code, microinstruction, and micro-operations are not clear.
- 5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

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(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 5. Claims 1, 8, and 32 are rejected under 35 U.S.C. 102(b) as being anticipated by Kainaga et al, U.S. Patent No. 4,491,912.

Kainaga et al teaches the invention as claimed in claim 1 including a processor comprising a microinstruction pointer stack (52) in a micro-code execution unit executing micro-code and manipulating the stack with a set of microinstructions (col. 3, lines 36 and 40).

The method claim 8 and the program product claim 32 are equivalently rejected based on the same reason.

6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Mizugaki taught a method of using a microinstruction pointer stack.

Miu et al taught a method of manipulating return address stack with a set of microinstructions.

Horst et al taught a method of loading return address stack with a literal to allow vectored branching.

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Grundmann et all taught a method of operating a stack in one machine cycle.

Cornaby et al taught a method of using a microinstruction pointer stack.

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kenneth S KIM whose telephone number is (703) 305-9693. The examiner can normally be reached on M-F (8:30-17:00).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mark Rinehart can be reached on (703) 305-4815. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872-9306 for regular communications and (703) 872-9306 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-3900.

August 27, 2004

PRIMARY EXAMINER